BRUHATH BANGALORE MAHANAGARA PALIKE

Name of Work:Improvements to Drain and Asphalting to Medarahalli Area in Ward No. 12

DETAILED ESTIMATE

Ward No. 12					Est. Cost	15000000.00		
Sl. No.	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
1	2	3	4	5	6	7	8	9
1	Removing B.S slab of drain and stacking (Page No 25., I.no.5.32 of KPWD S.R 2016-17).							
	2nd Cross From Vinayakalayout Main Rd							
	Side Drains	2	240.00	1.80		864.00		
	3rd Cross	2	80.00	1.35		216.00		
	1st A Main	2	130.00	1.35		351.00		
	1St Main	2	130.00	1.35		351.00		
		2	185.00	1.35		499.50		
	2nd Main	2	130.00	1.35		351.00		
		2	185.00	1.35		499.50		
	3rd Main	2	130.00	1.35		351.00		
		2	185.00	1.35		499.50		
						3982.50		
	Less Broken Slabs 15 %					597.38		
						3385.13	65.72	222470.42
							Per Sqm	
	CSR of 2016-17							
	Basic Rate	62.00						
	Add A.W. 6%	3.72						
	TOTAL	65.72						
2	KSRB 300-1 : Earthwork excavation by manual means in ordinary soil involving an average harizintal throw upto 2 meters and an average horizontal lift upto 0.5m, excavated surface leveled and sides neately dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No 142., I.No.19.1 of KPWD S.R 2016-17)							
	Disilting of Side Drains							
	2nd Cross	2	240.00	0.60	0.60	172.80		
	3rd Cross	2	80.00	0.60	0.60	57.60		

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A Main	2	130.00	0.60	0.60	93.60		
1St Main	2	130.00	0.60	0.60	93.60		
	2	180.00	0.60	0.60	129.60		
2nd Main	2	130.00	0.60	0.60	93.60		
	2	180.00	0.60	0.60	129.60		
3rd Main	2	130.00	0.60	0.60	93.60		
	2	180.00	0.60	0.60	129.60		
4th Cross	2	150.00	0.60	0.60	108.00		
3rd Cross	2	125.00	0.60	0.60	90.00		
2nd Cross	2	115.00	0.60	0.60	82.80		
Cross Road	2	47.00	0.60	0.60	33.84		
3rd B Cross	2	83.00	0.60	0.60	59.76		
3rd A Cross	2	67.00	0.60	0.60	48.24		
1st A Cross	2	100.00	0.60	0.60	72.00		
Water supply & Sanatory road Cutting							
2nd Cross	1	240.00	1.80	0.50	216.00		
3rd Cross	1	80.00	1.80	0.50	72.00		
1st A Main	1	130.00	1.80	0.50	117.00		
1St Main	1	130.00	1.80	0.50	117.00		
	1	180.00	1.80	0.50	162.00		
2nd Main	1	130.00	1.80	0.50	117.00		
	1	180.00	1.80	0.50	162.00		
3rd Main	1	130.00	1.80	0.50	117.00		
	1	180.00	1.80	0.50	162.00		
4th Cross	1	150.00	1.80	0.50	135.00		
3rd Cross	1	125.00	1.80	0.50	112.50		
2nd Cross	1	115.00	1.80	0.50	103.50		
3rd B Cross	1	83.00	1.80	0.50	74.70		
3rd A Cross	1	67.00	1.80	0.50	60.30		
1st A Cross	1	100.00	1.80	0.50	90.00		
Cross Road(Mud Road)	1	47.00	4.50	0.50	105.75		
					3411.99		
					3411.99	**86.92**	**296570.00**
						Per Cum	
CSR of 2016-17							
Basic Rate	82.00						
Add A.W. 6%	4.92						
TOTAL	**86.92**						

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3	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 (Page No. 149 I.No.19.64 of KPWD S.R 2016-17)							
	Cross Road	1.00	47.00	4.50		211.50		
						211.50	**5.30**	**1121.00**
							Per Sqm	
	CSR of 2016-17							
	Basic Rate		5.00					
	Add A.W. 6%		0.30					
	TOTAL		**5.30**					
4	Construction of Sub Grade and earthen Shoulders with approved material Gravel/Murrum With all Lifts & Leads transporting to site, Spreading Grading to required slope and compacted to meet requirement of Table No.300.2 complete as per specifications (including cost of earth , watering Charges & Compaction by vibratory roller) MORTH Specification No.305 (Page no.148,1 no 19.62 of KPWD S.R 2016-17)							
	Cross Road	1.00	47.00	4.50	0.15	31.73		
						31.73	**350.86**	**11131.00**
							Per Cum	
	CSR of 2016-17							
	Basic Rate		331.00					
	Add A.W. 6%		19.86					
	TOTAL		**350.86**					
5	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Materia (Page No.155., I. No.20.5.1 of KPWD S.R 2016-17)							
	Cross Road	1.00	47.00	4.50	0.25	52.88		
	Water supply & Sanatory road Cutting							
	2nd Cross	1	240.00	1.80	0.25	108.00		
	3rd Cross	1	80.00	1.80	0.25	36.00		
	1st A Main	1	130.00	1.80	0.25	58.50		

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	1st Main	1	130.00	1.80	0.25	58.50		
		1	180.00	1.80	0.25	81.00		
	2nd Main	1	130.00	1.80	0.25	58.50		
		1	180.00	1.80	0.25	81.00		
	3rd Main	1	130.00	1.80	0.25	58.50		
		1	180.00	1.80	0.25	81.00		
	4th Cross	1	150.00	1.80	0.25	67.50		
	3rd Cross	1	125.00	1.80	0.25	56.25		
	2nd Cross	1	115.00	1.80	0.25	51.75		
	3rd B Cross	1	83.00	1.80	0.25	37.35		
	3rd A Cross	1	67.00	1.80	0.25	30.15		
	1st A Cross	1	100.00	1.80	0.25	45.00		
	Cross Road(Mud Road)	1	47.00	4.50	0.25	52.88		
						1014.75	1546.54	1569351.00
							Per Cum	
	CSR of 2016-17							
	Basic Rate		1459.00					
	Add A.W. 6%		87.54					
	TOTAL		1546.54					
6	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406(Page No 158., I.No.20.18 of KPWD S.R 2016-17).							
	Water supply & Sanatory road Cutting							
	2nd Cross	1	240.00	1.80	0.20	86.40		
	3rd Cross	1	80.00	1.80	0.20	28.80		
	1st A Main	1	130.00	1.80	0.20	46.80		
	1St Main	1	130.00	1.80	0.20	46.80		
		1	180.00	1.80	0.20	64.80		
	2nd Main	1	130.00	1.80	0.20	46.80		
		1	180.00	1.80	0.20	64.80		
	3rd Main	1	130.00	1.80	0.20	46.80		
		1	180.00	1.80	0.20	64.80		

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	Cross	1	150.00	1.80	0.20	54.00		
	3rd Cross	1	125.00	1.80	0.20	45.00		
	2nd Cross	1	115.00	1.80	0.20	41.40		
	3rd B Cross	1	83.00	1.80	0.20	29.88		
	3rd A Cross	1	67.00	1.80	0.20	24.12		
	1st A Cross	1	100.00	1.80	0.20	36.00		
	Cross Road(Mud Road)	1	47.00	4.50	0.20	42.30		
						769.50		
						769.50	1768.08	1360537.56
	CSR of 2016-17						Per Cum	
	Basic Rate		1668.00					
	Add A.W. 6%		100.08					
	TOTAL		1768.08					
7	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM,WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 (page no.161., I.No.21.6 of KPWD S.R.2016-17)							
	Water supply & Sanatory road Cutting							
	2nd Cross	1	240.00	2.00		480.00		
	3rd Cross	1	80.00	2.00		160.00		
	1st A Main	1	130.00	2.00		260.00		
	1St Main	1	130.00	2.00		260.00		
		1	180.00	2.00		360.00		
	2nd Main	1	130.00	2.00		260.00		
		1	180.00	2.00		360.00		
	3rd Main	1	130.00	2.00		260.00		
		1	180.00	2.00		360.00		
	4th Cross	1	150.00	2.00		300.00		
	3rd Cross	1	125.00	2.00		250.00		
	2nd Cross	1	115.00	2.00		230.00		
	3rd B Cross	1	83.00	2.00		166.00		
	3rd A Cross	1	67.00	2.00		134.00		
	1st A Cross	1	100.00	2.00		200.00		
	Cross Road(Mud Road)	1	47.00	4.50		211.50		
						4251.50	27.56	117171.00
							Per Sqm	

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	CSR of 2016-17							
	Basic Rate		26.00					
	Add A.W. 6%		1.56					
	TOTAL		**27.56**					
8	KSRRB 500-2 : Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to rceive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5 (Page No.161., I.No.21.2 of KPWD S.R 2016-2017)							
	2nd Cross	1	240.00	5.20		1248.00		
	3rd Cross	1	80.00	5.40		432.00		
	1st A Main	1	130.00	4.80		624.00		
	1St Main	1	130.00	6.00		780.00		
		1	180.00	5.70		1026.00		
	2nd Main	1	130.00	6.00		780.00		
		1	180.00	5.70		1026.00		
	3rd Main	1	130.00	6.00		780.00		
		1	180.00	5.70		1026.00		
	4th Cross	1	150.00	4.50		675.00		
	3rd Cross	1	135.00	4.80		648.00		
	2nd Cross	1	115.00	4.80		552.00		
	3rd B Cross	1	83.00	4.70		390.10		
	3rd A Cross	1	67.00	5.00		335.00		
	1st A Cross	1	100.00	6.00		600.00		
						10922.10	**3.18**	**34732.28**
	CSR of 2016-17						**Per Cum**	
	Basic Rate		3.00					
	Add A.W. 6%		0.18					
	TOTAL		**3.18**					
9	KSRRB 500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5 (Page No.161, Item No. 21.7 of KPWD S.R.2016-2017)							

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	2nd Cross	1	240.00	5.20		1248.00		
	3rd Cross	1	80.00	5.40		432.00		
	1st A Main	1	130.00	4.80		624.00		
	1St Main	1	130.00	6.00		780.00		
		1	180.00	5.70		1026.00		
	2nd Main	1	130.00	6.00		780.00		
		1	180.00	5.70		1026.00		
	3rd Main	1	130.00	6.00		780.00		
		1	180.00	5.70		1026.00		
	4th Cross	1	150.00	4.50		675.00		
	3rd Cross	1	135.00	4.80		648.00		
	2nd Cross	1	115.00	4.80		552.00		
	Cross Road	1	47.00	4.40		206.80		
	3rd B Cross	1	83.00	4.70		390.10		
	3rd A Cross	1	67.00	5.00		335.00		
	1st A Cross	1	100.00	6.00		600.00		
						11128.90	**11.66**	**129762.974**
							Per Cum	
	CSR of 2016-17							
	Basic Rate		11.00					
	Add A.W. 6%		0.66					
	TOTAL		**11.66**					
10	SRRB M500-11 : Providing and laying bituminous Macamdam on prepared surface with crushed coarse aggregates as design mix for base/binding course including loading of agregates with F.E loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity transporting the mixed material in tipper to paver and laying mixed materials paver finisher to the required level and grade, roo lling by power roller to achieve the desired density but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour HOM of machineries complete as per specifications using TPH capacity HMP with sensor paver Gr-II (50mm to 75mm) with 3.3% VG-30 Bitumen (Page No.162, Item No. 21.11.5 of KPWD S.R 2016-17)							
	Water supply & Sanatory road Cutting							
	2nd Cross	1	240.00	1.80	0.05	21.60		
	3rd Cross	1	80.00	1.80	0.05	7.20		
	1st A Main	1	130.00	1.80	0.05	11.70		
	1St Main	1	130.00	1.80	0.05	11.70		
		1	180.00	1.80	0.05	16.20		

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Main	1	130.00	1.80	0.05	11.70		
	1	180.00	1.80	0.05	16.20		
3rd Main	1	130.00	1.80	0.05	11.70		
	1	180.00	1.80	0.05	16.20		
4th Cross	1	150.00	1.80	0.05	13.50		
3rd Cross	1	125.00	1.80	0.05	11.25		
2nd Cross	1	115.00	1.80	0.05	10.35		
3rd B Cross	1	83.00	1.80	0.05	7.47		
3rd A Cross	1	67.00	1.80	0.05	6.03		
1st A Cross	1	100.00	1.80	0.05	9.00		
Cross Road(Mud Road)	1	47.00	4.50	0.05	10.58		
For Profile Correction							
2nd Cross	1	240.00	2.50	0.05	30.00		
3rd Cross	1	80.00	2.50	0.05	10.00		
1st A Main	1	130.00	2.50	0.05	16.25		
1St Main	1	130.00	2.50	0.05	16.25		
	1	180.00	2.50	0.05	22.50		
2nd Main	1	130.00	2.50	0.05	16.25		
	1	180.00	2.50	0.05	22.50		
3rd Main	1	130.00	2.50	0.05	16.25		
	1	180.00	2.50	0.05	22.50		
4th Cross	1	150.00	2.30	0.05	17.25		
3rd Cross	1	125.00	2.30	0.05	14.38		
2nd Cross	1	115.00	2.30	0.05	13.23		
3rd B Cross	1	83.00	2.30	0.05	9.55		
3rd A Cross	1	67.00	2.30	0.05	7.71		
1st A Cross	1	100.00	2.30	0.05	11.50		
					438.48		
Add 10 % For filling Pot holes and House Rd Cuttings					43.85		
					482.32	5546.98	2675433.26
CSR of 2016-17						Per Sqm	
Basic Rate	5233.00						
Add A.W. 6%	313.98						
TOTAL	5546.98						

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11	KSRRB M500-19 : Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause No.500.9 complete in all respects complete as per specifications.MORTH specification no.509 using 40-60 TPH capacity HMP with Sensor paver Gr- II (30mm to 45mm) with 6% VG-30 bitumen (Page No.165, Item No. 21.23.12 of KPWD S.R 2016-17)							
	2nd Cross	1	240.00	5.20	0.04	49.92		
	3rd Cross	1	80.00	5.40	0.04	17.28		
	1st A Main	1	130.00	4.80	0.04	24.96		
	1St Main	1	130.00	6.00	0.04	31.20		
		1	180.00	5.70	0.04	41.04		
	2nd Main	1	130.00	6.00	0.04	31.20		
		1	180.00	5.70	0.04	41.04		
	3rd Main	1	130.00	6.00	0.04	31.20		
		1	180.00	5.70	0.04	41.04		
	4th Cross	1	150.00	4.50	0.04	27.00		
	3rd Cross	1	135.00	4.80	0.04	25.92		
	2nd Cross	1	115.00	4.80	0.04	22.08		
	Cross Road	1	47.00	4.40	0.04	8.27		
	3rd B Cross	1	83.00	4.70	0.04	15.60		
	3rd A Cross	1	67.00	5.00	0.04	13.40		
	1st A Cross	1	100.00	6.00	0.04	24.00		
						445.16	**13649.62**	**6076210.00**
							Per Cum	
	CSR of 2016-17							
	Basic Rate		12877.00					
	Add A.W. 6%		772.62					
	TOTAL		**13649.62**					
12	Add Plastic to Bituminous Concrete 8% of Bitumen							
	Qty Vide Item No: 11					445.16	**Cum**	
	8 % of the (445.16*8%)=35.61*141 kg					**5021.01**		
						5021.01	**27.00**	**135567.27**

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							Per Kg	
13	KSRRB M800-13 Road Markig with Hot Applied Thermoplastic compound with Reflectirising glass beads on Bituminous suface:- Providing and laying of Hot applied thermoplastic compund 2.5mm thick including reflectorising glass beads at 250gm/sqm area thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35 the finished surface to be level uniform and pre firm streads and holes complete as per specficaions (Page No.185,I.No.24.15 of KPWD S.R. 2016-2017)							
	2nd Cross	2.5	240.00	0.15		90.00		
	3rd Cross	2.5	80.00	0.15		30.00		
	1st A Main	2.5	130.00	0.15		48.75		
	1St Main	2.5	130.00	0.15		48.75		
		2.5	180.00	0.15		67.50		
	2nd Main	2.5	130.00	0.15		48.75		
		2.5	180.00	0.15		67.50		
	3rd Main	2.5	130.00	0.15		48.75		
		2.5	180.00	0.15		67.50		
	4th Cross	2.5	150.00	0.15		56.25		
	3rd Cross	2.5	135.00	0.15		50.63		
	2nd Cross	2.5	115.00	0.15		43.13		
	Cross Road	2.5	47.00	0.15		17.63		
	3rd B Cross	2.5	83.00	0.15		31.13		
	3rd A Cross	2.5	67.00	0.15		25.13		
	1st A Cross	2.5	100.00	0.15		37.50		
						778.88	**542.72**	**422711.00**
							Per Sqm	
	CSR of 2016-17							
	Basic Rate		512.00					
	Add A.W. 6%		30.72					
	TOTAL		**542.72**					
14	KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, die-cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications(Page No 189., I.No.24.41 of KPWD S.R 2016-17)							
	Roads					**2120.00**		

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						2120.00	359.34	761800.80
							Per Sqm	
	CSR of 2016-17							
	Basic Rate		339.00					
	Add A.W. 6%		20.34					
	TOTAL		359.34					
15	Refixing B S Slab of Drains and Pointing in C.M (1:30 Page No.25., I.No.5.33 of KPWD S.R.2016-17)							
	Qty Vide Item No.1					3385.13		
						3385.13	80.56	272705.67
	CSR of 2016-17						Per Sqm	
	Basic Rate		76.00					
	Add A.W. 6%		4.56					
	TOTAL		80.56					
16	Providing granite Slabs ofSelected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc.., Complete (Page No.25., I.No. 5.31 of KPWD S.R 2016-17)							
	Missing and Broken Slabs Qty Vide item No. 1					597.38		
						597.38	665.68	397661.00
							Per Sqm	
	CSR of 2016-17							
	Basic Rate		628.00					
	Add A.W. 6%		37.68					
	TOTAL		665.68					
17	Lead charges for conveying the excavated earth including loading and unloading upto 10kms as per directions (Page No.140 SL.No.5 of KPWD S.R 2016-17)							
	Qty.vide item No.2					3411.99		
						3411.99	106.00	361671.00
							Per Cum	
	for 10 Kms 2.5x 1.28x10=32		32.00					
	Loading & Unloading charges		68.00					
	CSR of 2016-17		100.00					
	Basic Rate		100.00					
	Add A.W. 6%		6.00					
	TOTAL		106.00					

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						SubTotal		14846992.06
18	Q.C 1% Charges							150000.00
19	Miscelleneous & other unforseen charges					LS		3007.94
						GRAND TOTAL Rs.		15000000.00

CERTIFICATE

1 The work spot have been inspected by me and work is found to be necessary.
2 This estimate is prepared as per CSR of 2016-17
3 This work is not split up
4 The provisions were made in this estimate are adequete and essential
5 This works comes under BBMP Limits

Asst.Engineer
Ward No.39

Asst.Executive Engineer
Shettyhalli Sub Divison
B.B.M.P.

Executive Engineer
Dasarahalli Division
B.B.M.P.

ನಂ. EE/DD/AS/114/ ದಿನಾಂಕ : 17/01/19
ರೂ. 150.00 Lakhs
Rs. one hundred fifty lakhs Only
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.ದಾಸರಹಳ್ಳಿ ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ನಂ. EE/TS/439/2017-18 ದಿನಾಂಕ : 30-12-17
ರೂ. 150.00 Lakhs
Rs. one hundred fifty Lakhs only
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

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